NCBI Blast 2 Sequences results
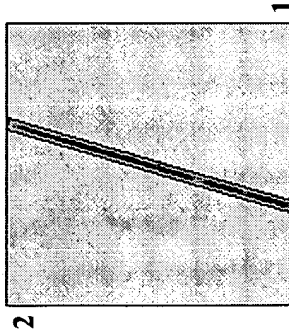
PubMed   Entrez   BLAST   OMIM   Taxonomy   Structure

BLAST 2 SEQUENCES RESULTS VERSION BLASTN 2.2.10 [Oct-19-2004]

Match: 1   Mismatch: -2   gap open: 5   gap extension: 2

x_dropoff: 50   expect: 10.000   wordsize: 11   Filter ☑   Align

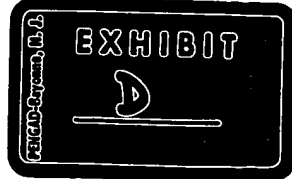**Sequence 1** lcl|seq_1 **Length** 8509 (1 .. 8509)

Sequence 2 lcl|seq_2 **Length** 2517 (1 .. 2517)

NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

NOTE: If protein translation is reversed, please repeat the search with reverse strand of the query sequence

```
Score = 4813 bits (2503), Expect = 0.0
Identities = 2510/2517 (99%)
Strand = Plus / Plus


Query: 2955  ggcaatgggtcgaaattcatagaatttgtgtgaggtgcgtagcggctctgacaggggtg  3014
             |||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||
Sbjct: 1     ggcaatgggtcgaaattcatagaatttgtgtgaggtgcgtagcggctctgacaggggtg  60

Query: 3015  ctgcgcggagatctctggtctcaggtaggcgacaatgagagaggtgttagttgcccccctg  3074
```

Blast Result

```
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:    61     ctgcgcggagatctctgtctcgtcaggtaggcgacaatggagaggtgttagttgccccctg   120

Query:  3075     tatcgctctctgcgtggcgcattgggtcatcctgccccggacatatgatattccgctagag   3134
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:   121     tatcgctctctgcgtggcgcattgggtcatcctgccccggacatatgatattccgctagag   180

Query:  3135     gattactgatagtttctgcctgtcgggcttgtcgggcttgtc   3194
                 ||||||||||||||||||||||||||||||||||||||||||
Sbjct:   181     gattactgatagtttctgcctgtcgggcttgtcgggcttgtc   240

Query:  3195     gggcctgtccctcttgtccgcctgtcctcacttttcacaatcaaaaatgggcgaagc   3254
                 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:   241     gggcctgtccctcttgtccgcctgtcctcacttttcacaatcaaaaatgggcgaagc   300

Query:  3255     ccttcttgttcttctatagttcatacgaaaattacacataattatcaatagctt   3314
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:   301     ccttcttgttcttctatagttcatacgaaaattacacataattatcaatagctt   360

Query:  3315     attcgcttaaagggagtaattggccgcaaagggagt   3374
                 ||||||||||||||||||||||||||||||||||||
Sbjct:   361     attcgcttaaagggagtaattggccgcaaagggagt   420

Query:  3375     aattgggccgcaaaagggagtaattggccgatatcggttgtttacatggggaggaatcc   3434
                 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:   421     aattgggccgcaaaagggagtaattggccgatatcggttgtttacatggggaggaatcc   480

Query:  3435     ccttaatcatttctccccatgggaaagacaacacaagtggccgcagaccggccttcgac   3494
                 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:   481     ccttaatcatttctcccatgggaaagacaacacaagtggccgcagaccggccttcgac   540

Query:  3495     cagacaaaactgtgctccctgccgaggtggcgagagggtctatatgcgcaatccgccc   3554
                 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:   541     cagacaaaactgtgctccctgccgaggtggcgagagggtctatatgcgcaatccgccc   600
```

Blast Result

```
Query:  3555  cgcctgcaggcgctcaagctcatgcatttaatgatagccactgcggcgccgcatggct  3614
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  601   cgcctgcaggcgctcaagctcatgcatttaatgatagccactgcggcgccgcatggct  660

Query:  3615  gatgatgtgcgccatgaaatgcggctggccgacattcgcgcaatcgacggcatgaaaaac  3674
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  661   gatgatgtgcgccatgaaatgcggctggccgacattcgcgcaatcgacggcatgaaaaac  720

Query:  3675  catgaccgtgagagcctgaccccgctgttcgaggagctagccgctgcggtgttgacccat  3734
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  721   catgaccgtgagagcctgaccccgctgttcgaggagctagccgctgcggtgttgacccat  780

Query:  3735  gatgaccctgcaaagatgatcgtgacagtcggcggcttggtcgatgaggcgcgaatagac  3794
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  781   gatgaccctgcaaagatgatcgtgacagtcggcggcttggtcgatgaggcgcgaatagac  840

Query:  3795  taccgccaggaggcaagcggcgaactcctagtgacgtggaccttccggagtacattccgt  3854
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  841   taccgccaggaggcaagcggcgaactcctagtgacgtggacccttccggagtacattccgt  900

Query:  3855  cgtatggcggcggagtcgaaccactgggccattctcgaccgtcaaacggtattccatctc  3914
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  901   cgtatggcggcggagtcgaaccactgggccattctcgaccgtcaaacggtattccatctc  960

Query:  3915  ggtagtaagtattccgtgctgctgttccagcacgtctctctagtctcgcgccaatcttgatcgg  3974
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  961   ggtagtaagtattccgtgctgctgttccagcacgtctctctagtctcgcgccaatcttgatcgg  1020

Query:  3975  atgagcgcgaaaacctttacggtccccgagttgcgggggcgctccttggagtgcccgaggga  4034
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1021  atgagcgcgaaaacctttacggtccccgagttgcgggggcgctccttggagtgcccgaggga  1080

Query:  4035  aagatggttcgttggaacgacgttaacagatttgctctcaaacctgcactggatgagatc  4094
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1081  aagatggttcgttggaacgacgttaacagatttgctctcaaacctgcactggatgagatc  1140
```

Blast Result

```
Query:  4095  aaccatttatcgcgtctgacattgacggcaaagccgaccaagattggccgtagcgtggca  4154
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1141  aaccatttatcgcgtctgacattgacggcaaagccgaccaagattggccgtagcgtggca  1200

Query:  4155  agtgtgactataggctgggaagtgaaagacgacccaaccgtcgccaggcgcgcgagctgcg  4214
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1201  agtgtgactataggctgggaagtgaaagacgacccaaccgtcgccaggcgcgcgagctggcg  1260

Query:  4215  ggttccaaggtcggtcgagatgctcgtcgcagagggcagcggaaacgatagcccctcc  4274
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1261  ggttccaaggtcggtcgagatgctcgtcgcagagggcagcggaaacgatagcccctcc  1320

Query:  4275  ttcccagaagcgggcgggatcacctacagtccacgttggctggagctgaaacgctctgct  4334
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1321  ttcccagaagcgggcgggatcacctacagtccacgttggctggagctgaaacgctctgct  1380

Query:  4335  ggcagcaacaaggacaacgatctgatcgcctcagacttccggcgtttctgtcgggagaga  4394
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1381  ggcagcaacaaggacaacgatctgatcgcctcagacttccggcgtttctgtcgggagaga  1440

Query:  4395  ggcgtgcgtctggacgctgcaaacatcgaaaactgtttttagatttctgcgcaaggta  4454
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1441  ggcgtgcgtctggacgctgcaaacatcgaaaactgtttttagatttctgcgcaaggta  1500

Query:  4455  gggaaggtttgagtttgaggtattcaccgcaatagtgttaaatgactttcgtgaaacg  4514
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1501  gggaaggtttgagtttgaggtattcaccgcaatagtgttaaatgactttcgtgaaacg  1560

Query:  4515  atgtgcaatatagcggtaagactatgaaatacacggctggacaggctgcaaagcaacgg  4574
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1561  atgtgcaatatagcggtaagactatgaaatacacggctggacaggctgcaaagcaacgg  1620

Query:  4575  gtgtggcgaccgcaaccatcactcgggcgctaaaaagcggtaaaatttccggtaaaaaag  4634
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1621  gtgtggcgaccgcaaccatcactcgggcgctaaaaagcggtaaaatttccggtaaaaaag  1680
```

Blast Result

```
Query:  4635  atgaatctggggcatgggttatagatcctgcagaattgcacagagtgttcctcccattt  4694
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1681  atgaatctggggcatgggttatagatcctgcagaattgcacagagtgttcctcccattt  1740

Query:  4695  caaagaaatacaccgaaacacctaacacgcaagtatatggtaagcgtgatgaaacacatg  4754
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1741  caaagaaatacaccgaaacacctaacacgcaagtatatggtaagcgtgatgaaacacatg  1800

Query:  4755  aaatgacctcagaaatcagcgcattagagcgtgaagttcggacttacgcgcatgctttat  4814
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1801  aaatgacctcagaaatcagcgcattagagcgtgaagttcggacttacgcgcatgctttat  1860

Query:  4815  ctgatgccaggggaggatcgcgacaaatggcgcgacatggccgagcgtctttcaatttcat  4874
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1861  ctgatgccaggggaggatcgcgacaaatggcgcgacatggccgagcgtctttcaatttcat  1920

Query:  4875  caccgatgagagaggaagaccgcccccctcaaaaacaaagatggtggaagatattctgat  4934
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1921  caccgatgagagaggaagaccgcccccctcaaaaacaaagatggtggaagatattctgat  1980

Query:  4935  cctgggcttcaggagccttgcctttaaaacctgaatcagcattctagcgatgctgataag  4994
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1981  cctgggcttcaggagccttgcctttaaaacctgaatcagcattctagcgatgctgataag  2040

Query:  4995  aagtaaatatagccacaatagagcggccattttccattcacatacagctcatcatgtgat  5054
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  2041  aagtaaatatagccacaatagagcggccattttccattcacatacagctcatcatgtgat  2100

Query:  5055  caatatcaagtattgatattcatcaatggagaagaattacatgtatcacaggatcatca  5114
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  2101  caatatcaagtattgatattcatcaatggagaagaattacatgtatcacaggatcatca  2160

Query:  5115  cagcatttgttttgtatttctaagtgctaacataactatcgctggccctaaagaagatt  5174
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

Blast Result

```
Sbjct: 2161  cagcattgttttgtattctaagtgctaacataactatcgctggccctaaagaagatt  2220

Query: 5175  gtactattgcagtatctcacttgggttcagaccgataattacagctttgtcgaagccg  5234
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2221  gtactattgcagtatctcacttgggttcagaccgataattacagctttgtcgaagccg  2280

Query: 5235  gnnnnnngccagagagacacgttttgatggtgtaataaactgctacgtatctcatg  5294
              | |||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2281  gtttttgccagagagacacgttttgatggtgtaataaactgctacgtatctcatg  2340

Query: 5295  atggtaacatacacagcatcatccggggcaacacacctcttatggagatggatattatg  5354
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2341  atggtaacatacacagcatcatccggggcaacacacctcttatggagatggatattatg  2400

Query: 5355  gcccagaagtactggcggaaaaacgcgatattgaggcacaggcccgcactttagaggcgg  5414
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2401  gcccagaagtactggcggaaaaacgcgatattgaggcacaggcccgcactttagaggcgg  2460

Query: 5415  aagcctataacgagtaccaaaacactagaagccagattgaggaaaataggggaacgtg  5471
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2461  aagcctataacgagtaccaaaacactagaagccagattgaggaaaataggggaacgtg  2517
```

```
CPU time:      0.07 user secs.       0.01 sys. secs       0.08 total secs.

Lambda      K       H
  1.33     0.621   1.12

Gapped
Lambda      K       H
  1.33     0.621   1.12

Matrix: blastn matrix:1 -2
Gap Penalties: Existence: 5, Extension: 2
Number of Sequences: 1
Number of Hits to DB: 908
Number of extensions: 21
Number of successful extensions: 14
Number of sequences better than 10.0: 1
```

Blast Result

Number of HSP's better than 10.0 without gapping: 1
Number of HSP's gapped: 2
Number of HSP's successfully gapped: 1
Number of extra gapped extensions for HSPs above 10.0: 0
Length of query: 8509
Length of database: 12,527,565,053
Length adjustment: 28
Effective length of query: 8481
Effective length of database: 12,527,565,025
Effective search space: 106246278977025
Effective search space used: 106246278977025
Neighboring words threshold: 0
Window for multiple hits: 0
X1: 11 (21.1 bits)
X2: 26 (50.0 bits)
X3: 26 (50.0 bits)
S1: 12 (23.8 bits)
S2: 23 (44.9 bits)